ABSTRACT

The present invention has incorporated a non-lethal negative selectable marker gene into the vector backbone DNA of a DNA plasmid used to transform plant cells. These transgenes are designed to express a non-lethal gene product in plant cells that contain the vector backbone DNA of the DNA plasmid. The gene products of the non-lethal negative selectable marker gene are involved in plant hormone biosynthesis pathways, plant hormone substrate diversion, plant hormone degradation, plant hormone signaling or metabolic interference. The use of these DNA plasmids to transform plant cells provides for the enhanced production of commercially viable plants.